

## IN THE CLAIMS

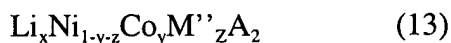
### Please amend the claims as follows.

1. (Currently Amended) A positive active material slurry composition comprising:  
a physical mixture of  
a positive active material comprising a lithiated transition metal compound, and an  
additive selected from the group consisting of semi-metals, metals and oxides thereof;  
a binder; and  
a carbon conductive agent; and  
an organic solvent, wherein said positive active material composition is prepared by  
physically mixing said positive active material, said binder in said organic solvent in a form of  
slurry.

2. (Original) The positive active material composition of claim 1 wherein the  
semi-metal is at least one semi-metal selected from the group consisting of Is, B, Ti, Ga, Ge and  
Al, and the metal is at least one metal selected from the group consisting of Ca, Mg, Sr and Ba.

3. (Original) The positive active material composition of claim 1 wherein the  
lithiated transition metal compound is selected from the group consisting of compounds  
represented by formulas 1 to 13:

- |   |      |
|---|------|
| $\text{Li}_x\text{MnA}_2$                                       | (1)  |
| $\text{Li}_x\text{MnO}_{2-z}\text{A}_z$                         | (2)  |
| $\text{Li}_x\text{Mn}_{1-y}\text{M}'_y\text{A}_2$               | (3)  |
| $\text{Li}_x\text{Mn}_2\text{A}_4$                              | (4)  |
| $\text{Li}_x\text{Mn}_2\text{O}_{4-z}\text{A}_z$                | (5)  |
| $\text{Li}_x\text{Mn}_{2-y}\text{M}'_y\text{A}_4$               | (6)  |
| $\text{Li}_x\text{BA}_2$  | (7)  |
| $\text{Li}_x\text{BO}_{2-z}\text{A}_z$                          | (8)  |
| $\text{Li}_x\text{B}_{1-y}\text{M}''_y\text{A}_2$               | (9)  |
| $\text{Li}_x\text{B}_{1-y}\text{M}''_y\text{O}_{2-z}\text{A}_z$ | (10) |
| $\text{Li}_x\text{NiCoA}_2$                                     | (11) |



wherein  $1.0 \leq x \leq 1.1$ ,  $0.01 \leq y \leq 0.1$ ,  $0.01 \leq z \leq 0.5$ , M' is at least one transition metal or lanthanide metal selected from the group consisting of Al, Cr, Co, Mg, La, Ce, Sr and V, M'' is at least one transition metal or lanthanide metal selected from the group consisting of Al, Cr, Mn, Fe, Mg, La, Ce, Sr and V, A is selected from O, F, S or P, and B is Ni or Co.

4. (Original) The positive active material composition of claim 1 wherein the additive is 0.01 to 10 wt% of the positive active material.

5. (Currently Amended) A method of preparing a positive electrode for a rechargeable lithium battery comprising the steps of:

physically mixing a positive active material with an additive, the positive active material being selected from the group consisting of lithiated transition metals, and the additive being selected from the group consisting of semi-metals, metals, and oxides thereof;

adding an organic solvent, a binder, and a carbon conductive agent to the mixture to prepare a positive active material slurry composition;

coating the positive active material composition on a current collector; and

drying the current collector coated with the positive active material slurry composition.

8. (Previously Presented) The positive active material composition of claim 1, wherein said organic solvent is N-methylpyrrolidone.

9. (Previously Presented) The method of claim 5, wherein said organic solvent is N-methylpyrrolidone.

10. (Withdrawn) The positive active material composition of claim 1 wherein the lithiated transition metal compound is a compound represented by formula:



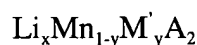
where  $1.0 \leq x \leq 1.1$ , and A is selected from O, F, S or P.

11. (Withdrawn) The positive active material composition of claim 1 wherein the lithiated transition metal compound is a compound represented by formula:



where  $1.0 \leq x \leq 1.1$ ,  $0.01 \leq z \leq 0.5$ , and A is selected from O, F, S or P.

12. (Withdrawn) The positive active material composition of claim 1 wherein the lithiated transition metal compound is a compound represented by formula:



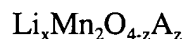
where  $1.0 \leq x \leq 1.1$ ,  $0.01 \leq y \leq 0.1$ , M' is at least one transition metal or lanthanide metal selected from the group consisting of Al, Cr, Co, Mg, La, Ce, Sr and V, and A is selected from O, F, S or P.

13. (Withdrawn) The positive active material composition of claim 1 wherein the lithiated transition metal compound is a compound represented by formula:



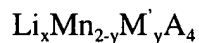
where  $1.0 \leq x \leq 1.1$ , and A is selected from O, F, S or P.

14. (Withdrawn) The positive active material composition of claim 1 wherein the lithiated transition metal compound is a compound represented by formula:



where  $1.0 \leq x \leq 1.1$ ,  $0.01 \leq z \leq 0.5$ , and A is selected from O, F, S or P.

15. (Withdrawn) The positive active material composition of claim 1 wherein the lithiated transition metal compound is a compound represented by formula:



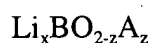
where  $1.0 \leq x \leq 1.1$ ,  $0.01 \leq y \leq 0.1$ , M' is at least one transition metal or lanthanide metal selected from the group consisting of Al, Cr, Co, Mg, La, Ce, Sr and V, and A is selected from O, F, S or P.

16. (Previously Presented) The positive active material composition of claim 1 wherein the lithiated transition metal compound is a compound represented by formula:



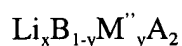
where  $1.0 \leq x \leq 1.1$ , A is selected from O, F, S or P, and B is Ni or Co.

17. (Previously Presented) The positive active material composition of claim 1 wherein the lithiated transition metal compound is a compound represented by formula:



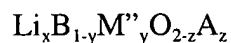
where  $1.0 \leq x \leq 1.1$ ,  $0.01 \leq z \leq 0.5$ , A is selected from O, F, S or P, and B is Ni or Co.

18. (Currently Amended) The positive active material composition of claim 1 wherein the lithiated transition metal compound is a compound represented by formula:



where  $1.0 \leq x \leq 1.1$ ,  $0.01 \leq y \leq 0.1$ , M'' is at least one transition metal or lanthanide metal selected from the group consisting of Al, Cr, Mn, Fe, Mg, La, Ce, Sr and V, and A is selected from O, F, S or P, and B is Ni or Co.

19. (Previously Presented) The positive active material composition of claim 1 wherein the lithiated transition metal compound is a compound represented by formula:



where  $1.0 \leq x \leq 1.1$ ,  $0.01 \leq y \leq 0.1$ ,  $0.01 \leq z \leq 0.5$ , M'' is at least one transition metal or lanthanide metal selected from the group consisting of Al, Cr, Mn, Fe, Mg, La, Ce, Sr and V, A is selected from O, F, S or P, and B is Ni or Co.

20. (Previously Presented) The positive active material composition of claim 1 wherein the lithiated transition metal compound is a compound represented by formula:



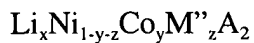
where  $1.0 \leq x \leq 1.1$ , and A is selected from O, F, S or P.

21. (Previously Presented) The positive active material composition of claim 1 wherein the lithiated transition metal compound is a compound represented by formula:



where  $1.0 \leq x \leq 1.1$ ,  $0.01 \leq z \leq 0.5$ , and A is selected from O, F, S or P.

22. (Previously Presented) The positive active material composition of claim 1 wherein the lithiated transition metal compound is a compound represented by formula:



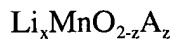
where  $1.0 \leq x \leq 1.1$ ,  $0.01 \leq y \leq 0.1$ ,  $0.01 \leq z \leq 0.5$ , M'' is at least one transition metal or lanthanide metal selected from the group consisting of Al, Cr, Mn, Fe, Mg, La, Ce, Sr and V, and A is selected from O, F, S or P.

23. (Withdrawn) The method of claim 5 wherein the lithiated transition metal compound is a compound represented by formula:



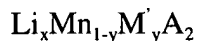
where  $1.0 \leq x \leq 1.1$ , and A is selected from O, F, S or P.

24. (Withdrawn) The method of claim 5 wherein the lithiated transition metal compound is a compound represented by formula:



where  $1.0 \leq x \leq 1.1$ ,  $0.01 \leq z \leq 0.5$ , and A is selected from O, F, S or P.

25. (Withdrawn) The method of claim 5 wherein the lithiated transition metal compound is a compound represented by formula:



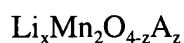
where  $1.0 \leq x \leq 1.1$ ,  $0.01 \leq y \leq 0.1$ ,  $0.01 \leq z \leq 0.5$ , M' is at least one transition metal or lanthanide metal selected from the group consisting of Al, Cr, Co, Mg, La, Ce, Sr and V, M'' is at least one transition metal or lanthanide metal selected from the group consisting of Al, Cr, Mn, Fe, Mg, La, Ce, Sr and V, and A is selected from O, F, S or P, and B is Ni or Co.

26. (Withdrawn) The method of claim 5 wherein the lithiated transition metal compound is a compound represented by formula:



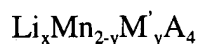
where  $1.0 \leq x \leq 1.1$ ,  $0.01 \leq y \leq 0.1$ ,  $0.01 \leq z \leq 0.5$ , M' is at least one transition metal or lanthanide metal selected from the group consisting of Al, Cr, Co, Mg, La, Ce, Sr and V, M'' is at least one transition metal or lanthanide metal selected from the group consisting of Al, Cr, Mn, Fe, Mg, La, Ce, Sr and V, and A is selected from O, F, S or P, and B is Ni or Co.

27. (Withdrawn) The method of claim 5 wherein the lithiated transition metal compound is a compound represented by formula:



where  $1.0 \leq x \leq 1.1$ ,  $0.01 \leq z \leq 0.5$ , and A is selected from O, F, S or P.

28. (Withdrawn) The method of claim 5 wherein the lithiated transition metal compound is a compound represented by formula:



where  $1.0 \leq x \leq 1.1$ ,  $0.01 \leq y \leq 0.1$ , M' is at least one transition metal or lanthanide metal selected from the group consisting of Al, Cr, Mn, Fe, Mg, La, Ce, Sr and V, and A is selected from O, F, S or P.

29. (Previously Presented) The method of claim 1 wherein the lithiated transition metal compound is a compound represented by formula:



where  $1.0 \leq x \leq 1.1$ , A is selected from O, F, S or P, and B is Ni or Co.

30. (Previously Presented) The method of claim 5 wherein the lithiated transition metal compound is a compound represented by formula:



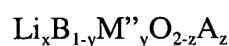
where  $1.0 \leq x \leq 1.1$ ,  $0.01 \leq z \leq 0.5$ , A is selected from O, F, S or P, and B is Ni or Co.

31. (Previously Presented) The method of claim 5 wherein the lithiated transition metal compound is a compound represented by formula:



where  $1.0 \leq x \leq 1.1$ ,  $0.01 \leq y \leq 0.1$ ,  $\text{M}''$  is at least one transition metal or lanthanide metal selected from the group consisting of Al, Cr, Mn, Fe, Mg, La, Ce, Sr and V, A is selected from O, F, S or P, and B is Ni or Co.

32. (Previously Presented) The method of claim 5 wherein the lithiated transition metal compound is a compound represented by formula:



where  $1.0 \leq x \leq 1.1$ ,  $0.01 \leq y \leq 0.1$ ,  $0.01 \leq z \leq 0.5$ ,  $\text{M}''$  is at least one transition metal or lanthanide metal selected from the group consisting of Al, Cr, Mn, Fe, Mg, La, Ce, Sr and V, A is selected from O, F, S or P, and B is Ni or Co.

33. (Previously Presented) The method of claim 5 wherein the lithiated transition metal compound is a compound represented by formula:



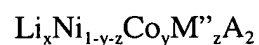
where  $1.0 \leq x \leq 1.1$ , and A is selected from O, F, S or P.

34. (Previously Presented) The method of claim 5 wherein the lithiated transition metal compound is a compound represented by formula:



where  $1.0 \leq x \leq 1.1$ ,  $0.01 \leq z \leq 0.5$ , and A is selected from O, F, S or P.

35. (Previously Presented) The method of claim 5 wherein the lithiated transition metal compound is a compound represented by formula:



where  $1.0 \leq x \leq 1.1$ ,  $0.01 \leq y \leq 0.1$ ,  $0.01 \leq z \leq 0.5$ ,  $\text{M}''$  is at least one transition metal or lanthanide metal selected from the group consisting of Al, Cr, Mn, Fe, Mg, La, Ce, Sr and V, and A is selected from O, F, S or P.